## We claim:

1. An apparatus for treating at least one of a plurality of disorders of a patient attributable at least in part to neural activity, said apparatus comprising:

a stimulation electrode adapted for placement on a nerve of a patient at a stimulation site;

a stimulation signal generator for generating a stimulation signal at said stimulation electrode and selected to electrically stimulate a nerve to induce bidirectional propagation of nervous impulses in a stimulated nerve;

a blocking member for placement on said nerve at a blocking site and creating localized conditions at said blocking site that at least partially diminish transmission of nerve impulses past said blocking site.

- 2. An apparatus according to claim 1 wherein said blocking member includes a drug-delivery member for delivery of a pharmacologic lock at said blocking site.
- 3. An apparatus according to claim 1 wherein said blocking member is an electrically controlled blocking member.
- 4. An apparatus according to claim 3 wherein said blocking member is cryogenic.
- 5. An apparatus according to claim 3 wherein said blocking member creates and electrical signal at said blocking site with an electrical frequency selected to at least partially diminish said transmission.
- 6. An apparatus according to claim 1 comprising a controller for selectively controlling parameters of said blocking and said stimulation.
- 7. An apparatus according to claim 6 wherein said controller is implantable within said patient's body.

- 8. An apparatus according to claim 6 wherein said controller is inductively coupled to said stimulation electrode and said blocking member to electrically controlling said electrode and member remote from an interior of said patient's body.
- 9. An apparatus according to claim 1 wherein said blocking member is one of at least two blocking members for disposition on said nerve on opposite sides of said stimulation electrode.
- 10. An apparatus according to claim 1 wherein said nerve is a vagus nerve.
- 11. An apparatus according to claim 6 including a sensor to sense a physiologic parameter of an organ and said controller connected to said sensor to regulate said blocking in response to said sensed parameter.
- 12. A method for treating at least one of a plurality of disorders of a patient, said method comprising:

electrically stimulating a vagus nerve of said patient at a stimulation site with a stimulation signal selected to have a therapeutic effect on a target organ;

applying an electrical blocking signal to said vagus nerve at a blocking site on a side of said stimulation site opposite said target organ;

said blocking signal selected to at least partially block nerve impulses to a second organ on a side of said blocking site opposite said stimulation site.

- 13. A method according to claim 12 wherein said blocking signal is variable by a controller to regulate transmission nerve impulses past said blocking site.
- 14. A method according to claim 13 comprising sensing a physiologic parameter of said second organ and regulating said blocking signal in response to said sensed parameter.

- 15. A method according to claim 14 wherein said target organ is a gastro-intestinal organ and said second organ is a heart.
- 16. A method according to claim 15 wherein said disorder is any one of a plurality of gastrointestinal diseases.
- 17. A method according to claim 14 wherein said target organ is a brain and said second organ is a heart.
- 18. A method according to claim 17 wherein said disorder is any one of a plurality of diseases associated with the central nervous system.
- 19. A method according to claim 18 wherein said disease is selected from a group including dementia, schizophrenia, depression, borderline personality disorder, epilepsy and Parkinson's disease.